

(19) World Intellectual Property  
Organization  
International Bureau



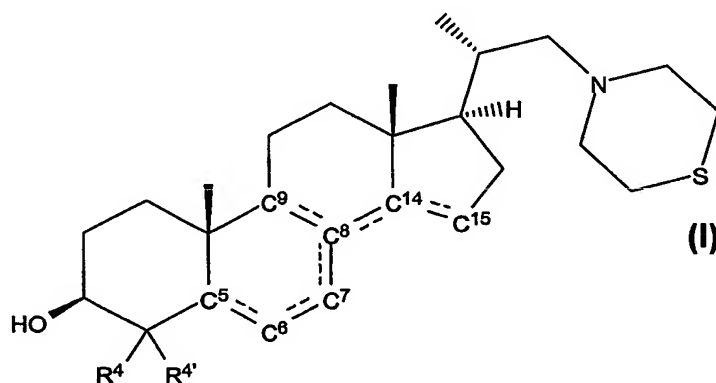
(43) International Publication Date  
17 February 2005 (17.02.2005)

PCT

(10) International Publication Number  
**WO 2005/014613 A1**

- (51) International Patent Classification<sup>7</sup>: **C07J 43/00**,  
A61K 31/58, A61P 15/08
- (21) International Application Number:  
PCT/EP2004/007737
- (22) International Filing Date: 13 July 2004 (13.07.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
03090237.3 28 July 2003 (28.07.2003) EP
- (71) Applicant (for all designated States except US): **SCHERING AKTIENGESELLSCHAFT** [DE/DE]; Müllerstrasse 178, 13353 Berlin (DE).
- (72) Inventors; and  
(75) Inventors/Applicants (for US only): **BLUME, Thorsten** [DE/DE]; Tschalkowskystrasse 16, 16552 Schildow (DE). **LINDENTHAL, Bernhard** [DE/DE]; Wilkestrasse 19, 13507 Berlin (DE). **PRELLE, Katja** [DE/DE]; Laurinsteig 31, 13465 Berlin (DE). **PETERS-KOTTIG, Michael** [DE/DE]; Stargarder Strasse 76, 10437 Berlin (DE).
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:  
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: THIOMORPHOLINO STEROID COMPOUNDS, THE USE THEREOF FOR THE PREPARATION OF MEIOSIS-REGULATING MEDICAMENTS AND METHOD FOR THE PREPARATION THEREOF



(57) Abstract: The present invention relates to thiomorpholino steroid compounds of general formula (I), which may advantageously be employed to stimulate meiosis in human oocytes, the steroid being specifically characterized by a thiomorpholino moiety bonded to C<sup>17</sup> of the steroid skeleton via an alkyl spacer.